# TOCRIS a biotechne brand

# **Certificate of Analysis**

# www.tocris.com

### Product Name: TCS PIM-1 4a

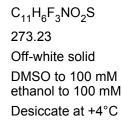
Catalog No.: 3714 Batch No.: 1

CAS Number: IUPAC Name: 438190-29-5 (5*Z*)-5-[[3-(Trifluoromethyl)phenyl]methylene]-2,4-thiazolidinedione

# 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility:

Storage: Batch Molecular Structure:



 $F_3C$ NΗ

# 2. ANALYTICAL DATA

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis: R<sub>f</sub> = 0.4 (Chloroform:Methanol [97:3]) Shows 98.6% purity Consistent with structure Consistent with structure Carbon Hydrogen Nitrogen

			-
Theoretical	48.35	2.21	5.13
Found	48.3	2.17	5.11

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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## Print Date: Jan 15th 2016

Batch No.: 1

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#### Product Name: TCS PIM-1 4a

CAS Number: 438190-29-5

(5Z)-5-[[3-(Trifluoromethyl)phenyl]methylene]-2,4-thiazolidinedione

### **Description:**

**IUPAC Name:** 

Selective, ATP-competitive Pim kinase inhibitor (IC50 values are 24 and 100 nM for Pim-1 and Pim-2 respectively). Displays selectivity over a panel of ~50 other kinases tested. Exhibits cytotoxicity in PC3 prostate carcinoma cells in vitro ( $IC_{50} = 17$ μM).

#### **Physical and Chemical Properties:**

Batch Molecular Formula: C11H<sub>6</sub>F3NO2S Batch Molecular Weight: 273.23 Physical Appearance: Off-white solid

Minimum Purity: >98%

**Batch Molecular Structure:** 

#### Storage: Desiccate at +4°C

Solubility & Usage Info: DMSO to 100 mM ethanol to 100 mM

**Stability and Solubility Advice:** 

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Catalog No.: 3714

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

#### **References:**

Xia et al (2009) Synthesis and evaluation of novel inhibitors of Pim-1 and Pim-2 protein kinases. J.Med.Chem. 52 74. PMID: 19072652.

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